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Comp. Star.	R.A. 1887·0.			Decl. 1887·0.			Authority.
	h	m	s	°	′	″	
93	3	11	29·12	+35	8	6·1	½ (B.W.$_2$ 199 + Lal. 6055).
94	2	52	24·32	+36	40	22·2	Equat. comparison with B.B. vi. + 36°·608.
Comet IV. 1887.							
95	16	5	18·22	−10	58	4·5	Equat. comparison with B.W.$_1$ 63.
96	16	8	20·71	−10	22	22·1	⅓ (2 Yarn. 6715 + B.W.$_1$ 111).
97	16	12	43·98	− 8	47	30·9	⅓ (2 Schj. 5761 + Lal. 29697).
98	16	11	51·74	− 8	0	12·7	B.W.$_1$ 184.
99	16	16	25·37	− 6	35	47·2	½ (B.W.$_1$ 272 + Schj. 5779).
100	16	23	9·36	− 5	12	1·6	⅓ (2 Schj. 5822 + Lal. 29982).
101	16	26	16·50	− 4	15	12·7	Schj. 5841.
102	16	27	38·61	− 3	8	29·8	Equat. comparison with Schj. 5851.
103	16	34	58·27	− 1	46	39·7	½ (Schj. 5901 + Lam. 5252).
104	17	15	18·12	+ 6	32	58·7	⅓ (2 Glasg. 4271 + B.W.$_1$ 236).
105	17	18	55·62	+ 6	37	26·8	Arm.$_2$ 2052.
106	17	25	8·04	+ 6	51	3·0	B.B. vi. + 6°·3434.
107	17	17	54·30	+ 7	11	59·9	B.B. vi. + 7°·3355.
108	17	34	29·53	+ 7	51	49·7	½ (Glasg. 4351 + Schj. 6332).
109	17	28	27·04	+ 8	11	10·1	Lal. 31996.
110	17	37	32·46	+ 8	6	49·8	½ (B.W.$_1$ 701 + Lal. 32337).
111	17	38	6·16	+ 8	29	15·4	B.B. vi. + 8°·3478.
112	17	45	39·21	+ 8	33	41·0	½ (Glasg. 4405 + Schj. 6418).
113	17	47	29·06	+ 8	50	7·2	B.B. vi. + 8°·3526.

Col. Tomline's Observatory, Orwell Park:
1887. *October* 19.

Occultation of Regulus by the Moon, observed at Dunsink Observatory. Communicated by Sir R. S. Ball, LL.D., F.R.S.

The occultation of *Regulus* by the Moon, which took place on October 12, was observed here with the 12-inch equatorial by Mr. Arthur A. Rambaut. The disappearance occurred at

16$^{\text{h}}$ 16$^{\text{m}}$ 54$^{\text{s}}$·2 Dunsink mean time.

The star suffered no perceptible diminution of brightness as it approached the bright limb of the Moon. It appeared to enter undimmed for a short distance within the disc, and was then suddenly extinguished.

The reappearance occurred at

17$^{\text{h}}$ 20$^{\text{m}}$ 36$^{\text{s}}$·0 Dunsink mean time.

The star flashed out in full brilliance with a suddenness almost startling.

Dunsink Observatory: October 17, 1887.

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Occultation of Regulus. By the Rev. S. J. Johnson, M.A.

In contrast to the clouded state of the sky when *Aldebaran* was occulted on the 7th, a perfectly clear air prevailed during immersion of *Regulus* on the morning of the 13th. Disappearance $4^h\ 41^m\ 50^s$ morn. (time taken by sextant only.) But the point of interest was that the star assumed the appearance of visibility through the bright disc of the Moon during three beats of the chronometer ($1\frac{1}{2}$ second) before finally vanishing. Employed a power of 50 on $3\frac{1}{4}$ inches. *Mars* was included in the field of the finder, contrasting not a little in tint with the whiteness of *Regulus* and the yellow lunar disc. Emersion through haze at $5^h\ 47^m\ 19^s$. This might have been observed with the naked eye in a clear sky, as the star was readily visible to unaided vision directly afterwards.

Melplash Vicarage, Bridport:
October 22.

Note on the Latitude and Longitude of Maresfield Observatory.
By Captain W. Noble.

After the erection of my observatory I determined its geographical coordinates (by the best means then at my disposal) as follow :—

Latitude 51° 0′ 58″·3 N., and
Longitude 17·5 seconds E.;

and these quantities appear in every communication of mine to the Society (in which they were involved) up to the year 1874.

In 1873, however, the Ordnance Survey of the county of Sussex for the 25-inch map was completed, and at the end of that year I applied to the Director-General for the position of a bench mark made at the time. In reply I was furnished with a position (as it has since turned out) 3″·5 in error in latitude, and 10″·1 wrong in longitude = 355 feet and 646 feet respectively; but I altered my assumed coordinates in accordance with it.

Recently the present Director-General of the Ordnance Survey has obligingly furnished me with the absolutely accurate place of the bench mark of which I have spoken, and triangulating from it to the centre of my transit pier I find that to be situated in

Latitude 51° 0′ 59″·8 N., and
Longitude 17·11 seconds E.;

a determination in which I have the highest confidence.

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